IFW16

RAW SEQUENCE LISTING   DATE: 08/02/2004
PATENT APPLICATION: **US/09/592,695D**   TIME: 10:58:57

Input Set : **A:\Sequence Listing.txt**
Output Set: **N:\CRF4\08022004\I592695D.raw**

```
 3 <110> APPLICANT: Cochran, Andrea G.
 4        Skelton, Nicholas J.
 5        Starovasnik, Melissa A.
 7 <120> TITLE OF INVENTION: Structured Peptide Scaffold For Displaying Turn
 8        Libraries On Phage
10 <130> FILE REFERENCE: 11669.116USU1
12 <140> CURRENT APPLICATION NUMBER: US 09/592,695D
13 <141> CURRENT FILING DATE: 2000-06-13
15 <150> PRIOR APPLICATION NUMBER: US 60/139,017
16 <151> PRIOR FILING DATE: 1999-06-14
18 <160> NUMBER OF SEQ ID NOS: 49
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 18
22 <212> TYPE: PRT
23 <213> ORGANISM: Artificial Sequence
25 <220> FEATURE:
26 <223> OTHER INFORMATION: turn peptide
28 <220> FEATURE:
29 <221> NAME/KEY: UNSURE
30 <222> LOCATION: 2, 16
31 <223> OTHER INFORMATION: Xaa is Trp, Tyr, Phe, His, Ile, Val or Thr.
33 <220> FEATURE:
34 <221> NAME/KEY: UNSURE
35 <222> LOCATION: 3, 17
36 <223> OTHER INFORMATION: Xaa is Trp, Tyr, Phe, Leu, Met, Ile or Val.
38 <220> FEATURE:
39 <221> NAME/KEY: UNSURE
40 <222> LOCATION: 4-15
41 <223> OTHER INFORMATION: Xaa is a naturally occurring L-amino acid and 9 may be
absent.
43 <400> SEQUENCE: 1
44  Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys
45     1               5                   10                  15
47 <210> SEQ ID NO: 2
48 <211> LENGTH: 10
49 <212> TYPE: PRT
50 <213> ORGANISM: Artificial Sequence
52 <220> FEATURE:
53 <223> OTHER INFORMATION: turn peptide
55 <400> SEQUENCE: 2
56  Cys Thr Trp Glu Gly Asn Lys Leu Thr Cys
57     1               5                   10
59 <210> SEQ ID NO: 3
60 <211> LENGTH: 12
```

(pg. 6)

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```
61 <212> TYPE: PRT
62 <213> ORGANISM: Artificial Sequence
64 <220> FEATURE:
65 <223> OTHER INFORMATION: turn peptide
67 <400> SEQUENCE: 3
68   Ser Cys Thr Trp Glu Gly Asn Lys Leu Thr Cys Lys
69     1               5                   10
71 <210> SEQ ID NO: 4
72 <211> LENGTH: 10
73 <212> TYPE: PRT
74 <213> ORGANISM: Artificial Sequence
76 <220> FEATURE:
77 <223> OTHER INFORMATION: turn peptide
79 <400> SEQUENCE: 4
80   Cys Gly Asn Gln Gly Ser Phe Leu Thr Cys
81     1               5                   10
83 <210> SEQ ID NO: 5
84 <211> LENGTH: 10
85 <212> TYPE: PRT
86 <213> ORGANISM: Artificial Sequence
88 <220> FEATURE:
89 <223> OTHER INFORMATION: turn peptide
91 <400> SEQUENCE: 5
92   Cys Thr Trp Gln Gly Ser Phe Leu Thr Cys
93     1               5                   10
95 <210> SEQ ID NO: 6
96 <211> LENGTH: 12
97 <212> TYPE: PRT
98 <213> ORGANISM: Artificial Sequence
100 <220> FEATURE:
101 <223> OTHER INFORMATION: turn peptide
103 <400> SEQUENCE: 6
104   Ser Cys Gly Asn Gln Gly Ser Phe Leu Thr Cys Lys
105     1               5                   10
107 <210> SEQ ID NO: 7
108 <211> LENGTH: 12
109 <212> TYPE: PRT
110 <213> ORGANISM: Artificial Sequence
112 <220> FEATURE:
113 <223> OTHER INFORMATION: turn peptide
115 <400> SEQUENCE: 7
116   Ser Cys Thr Asn Gln Gly Ser Phe Leu Thr Cys Lys
117     1               5                   10
119 <210> SEQ ID NO: 8
120 <211> LENGTH: 12
121 <212> TYPE: PRT
122 <213> ORGANISM: Artificial Sequence
124 <220> FEATURE:
125 <223> OTHER INFORMATION: turn peptide
```

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Input Set : **A:\Sequence Listing.txt**
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```
127 <400> SEQUENCE: 8
128  Ser Cys Gly Trp Gln Gly Ser Phe Leu Thr Cys Lys
129    1            5                   10
131 <210> SEQ ID NO: 9
132 <211> LENGTH: 12
133 <212> TYPE: PRT
134 <213> ORGANISM: Artificial Sequence
136 <220> FEATURE:
137 <223> OTHER INFORMATION: turn peptide
139 <400> SEQUENCE: 9
140  Ser Cys Thr Trp Gln Gly Ser Phe Leu Thr Cys Lys
141    1            5                   10
143 <210> SEQ ID NO: 10
144 <211> LENGTH: 12
145 <212> TYPE: PRT
146 <213> ORGANISM: Artificial Sequence
148 <220> FEATURE:
149 <223> OTHER INFORMATION: turn peptide
151 <400> SEQUENCE: 10
152  Met Cys Gly Asn Gln Gly Met Phe Leu Thr Cys Lys
153    1            5                   10
155 <210> SEQ ID NO: 11
156 <211> LENGTH: 12
157 <212> TYPE: PRT
158 <213> ORGANISM: Artificial Sequence
160 <220> FEATURE:
161 <223> OTHER INFORMATION: turn peptide
163 <400> SEQUENCE: 11
164  Met Cys Thr Trp Gln Gly Met Phe Leu Thr Cys Lys
165    1            5                   10
167 <210> SEQ ID NO: 12
168 <211> LENGTH: 10
169 <212> TYPE: PRT
170 <213> ORGANISM: Artificial Sequence
172 <220> FEATURE:
173 <223> OTHER INFORMATION: turn peptide
175 <400> SEQUENCE: 12
176  Cys Thr Lys Val Trp Gln Leu Trp Thr Cys
177    1            5                   10
179 <210> SEQ ID NO: 13
180 <211> LENGTH: 12
181 <212> TYPE: PRT
182 <213> ORGANISM: Artificial Sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: turn peptide
187 <400> SEQUENCE: 13
188  Ser Cys Thr Trp Val Trp Gln Leu Leu Thr Cys Lys
189    1            5                   10
191 <210> SEQ ID NO: 14
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RAW SEQUENCE LISTING   DATE: 08/02/2004
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```
192 <211> LENGTH: 12
193 <212> TYPE: PRT
194 <213> ORGANISM: Artificial Sequence
196 <220> FEATURE:
197 <223> OTHER INFORMATION: turn peptide
199 <400> SEQUENCE: 14
200   Ser Cys His Phe Gly Pro Leu Thr Trp Val Cys Lys
201     1               5                   10
203 <210> SEQ ID NO: 15
204 <211> LENGTH: 12
205 <212> TYPE: PRT
206 <213> ORGANISM: Artificial Sequence
208 <220> FEATURE:
209 <223> OTHER INFORMATION: turn peptide
211 <400> SEQUENCE: 15
212   Ser Cys Thr Trp Gly Pro Leu Thr Leu Thr Cys Lys
213     1               5                   10
215 <210> SEQ ID NO: 16
216 <211> LENGTH: 10
217 <212> TYPE: PRT
218 <213> ORGANISM: Artificial Sequence
220 <220> FEATURE:
221 <223> OTHER INFORMATION: turn peptide
223 <220> FEATURE:
224 <221> NAME/KEY: UNSURE
225 <222> LOCATION: 3
226 <223> OTHER INFORMATION: Xaa is Trp, Tyr, Leu, Val, Thr or Asp.
228 <400> SEQUENCE: 16
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W--> **229   Cys Thr Xaa Glu Gly Asn Lys Leu Thr Cys**
```
230     1               5                   10
232 <210> SEQ ID NO: 17
233 <211> LENGTH: 10
234 <212> TYPE: PRT
235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: turn peptide
240 <220> FEATURE:
241 <221> NAME/KEY: UNSURE
242 <222> LOCATION: 3
243 <223> OTHER INFORMATION: Xaa is Trp, Tyr, Leu, Val, Thr or Asp.
245 <400> SEQUENCE: 17
```
W--> **246   Cys Thr Xaa Glu Asn Gly Lys Leu Thr Cys**
```
247     1               5                   10
249 <210> SEQ ID NO: 18
250 <211> LENGTH: 10
251 <212> TYPE: PRT
252 <213> ORGANISM: Artificial Sequence
254 <220> FEATURE:
255 <223> OTHER INFORMATION: turn peptide
```

```
       257 <220> FEATURE:
       258 <221> NAME/KEY: UNSURE
       259 <222> LOCATION: 3
       260 <223> OTHER INFORMATION: Xaa is Trp, Tyr, Leu, Val, Thr or Asp.
       262 <220> FEATURE:
       263 <221> NAME/KEY: UNSURE
       264 <222> LOCATION: 5
       265 <223> OTHER INFORMATION: Pro is D-Pro.
       267 <400> SEQUENCE: 18
W-->   268   Cys Thr Xaa Glu Pro Asn Lys Leu Thr Cys
       269     1           5                   10
       271 <210> SEQ ID NO: 19
       272 <211> LENGTH: 10
       273 <212> TYPE: PRT
       274 <213> ORGANISM: Artificial Sequence
       276 <220> FEATURE:
       277 <223> OTHER INFORMATION: turn peptide
       279 <220> FEATURE:
       280 <221> NAME/KEY: UNSURE
       281 <222> LOCATION: 3
       282 <223> OTHER INFORMATION: Xaa is Trp, Tyr, Leu, Val, Thr or Asp.
       284 <220> FEATURE:
       285 <221> NAME/KEY: UNSURE
       286 <222> LOCATION: 5
       287 <223> OTHER INFORMATION: Pro is D-Pro.
       289 <400> SEQUENCE: 19
W-->   290   Cys Thr Xaa Glu Pro Gly Lys Leu Thr Cys
       291     1           5                   10
       293 <210> SEQ ID NO: 20
       294 <211> LENGTH: 10
       295 <212> TYPE: PRT
       296 <213> ORGANISM: Artificial Sequence
       298 <220> FEATURE:
       299 <223> OTHER INFORMATION: turn peptide
       301 <220> FEATURE:
       302 <221> NAME/KEY: UNSURE
       303 <222> LOCATION: 3
       304 <223> OTHER INFORMATION: Xaa is Trp, Tyr, Phe, Leu, Met, Ile, Val or Ala.
       306 <400> SEQUENCE: 20
W-->   307   Cys Thr Xaa Glu Gly Asn Lys Leu Thr Cys
       308     1           5                   10
       310 <210> SEQ ID NO: 21
       311 <211> LENGTH: 10
       312 <212> TYPE: PRT
       313 <213> ORGANISM: Artificial Sequence
       315 <220> FEATURE:
       316 <223> OTHER INFORMATION: turn peptide
       318 <220> FEATURE:
       319 <221> NAME/KEY: UNSURE
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 08/02/2004
PATENT APPLICATION: **US/09/592,695D**   TIME: 10:58:58

Input Set : **A:\Sequence Listing.txt**
Output Set: **N:\CRF4\08022004\I592695D.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

```
Seq#:1;  Xaa Pos. 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17
Seq#:16; Xaa Pos. 3
Seq#:17; Xaa Pos. 3
Seq#:18; Xaa Pos. 3
Seq#:19; Xaa Pos. 3
Seq#:20; Xaa Pos. 3
Seq#:21; Xaa Pos. 8
Seq#:22; Xaa Pos. 3
Seq#:23; Xaa Pos. 8
Seq#:25; N Pos. 19,20,31,32,34,35,37,38,40,41,52,53
Seq#:32; Xaa Pos. 6,8
Seq#:42; Xaa Pos. 7,8
Seq#:43; Xaa Pos. 2,5
Seq#:49; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22
Seq#:49; Xaa Pos. 23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41
Seq#:49; Xaa Pos. 42,43,44,45,46,47,48,49,50,52,54,55,56,57,58,59,60,61,62
Seq#:49; Xaa Pos. 63,64,65,67,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83
Seq#:49; Xaa Pos. 84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101
Seq#:49; Xaa Pos. 102,103,104,105,106,107,108,109,110,111,112,113,114,115
Seq#:49; Xaa Pos. 116,117,118
```

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:49; Line(s) 713

VERIFICATION SUMMARY   DATE: 08/02/2004
PATENT APPLICATION: **US/09/592,695D**   TIME: 10:58:58

Input Set : **A:\Sequence Listing.txt**
Output Set: **N:\CRF4\08022004\I592695D.raw**

```
L:44 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:246 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:268 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:324 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:358 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:390 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:50
L:485 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:627 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0
L:644 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0
L:736 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0
L:739 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:19
L:742 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:38
L:745 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:57
L:748 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:76
L:751 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:95
L:754 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:114
```